

SYSTEMS AND COMPONENTS FOR ENHANCING
REAR VISION FROM A VEHICLE

ABSTRACT OF THE DISCLOSURE

A vehicle system is disclosed that includes a vehicle lamp assembly including a plurality of LEDs that emit white light so as to function as an illuminator light. The lamp assembly also may include a plurality of LEDs that emit colored light to function as a signal light. The lamp assembly may include a camera. The lamp assembly may serve as a CHMSL or as a tail light. The system also includes a controller that rapidly pulses the LEDs at a rate that is imperceivable by the human eye. The pulsing intervals of the LEDs may be related to the readout intervals of the camera sensor array. In this manner, the LEDs may be pulsed on during camera readout to increase the illumination while the camera is capturing an image, or may be pulsed off during camera readout to prevent feedback glare from interfering with image capture by the camera.